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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/667,658	09/23/2003	Hong-June Park	PARK3020 / EM 9112	
23364	7590 10/31/2006		EXAMINER	
BACON & THOMAS, PLLC			MALEK, LEILA	
625 SLATE FOURTH F			ART UNIT	PAPER NUMBER
ALEXAND	RIA, VA 22314		2611	
			DATE MAILED: 10/31/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

A

	Application No.	Applicant(s)					
	10/667,658	PARK ET AL.					
Office Action Summary	Examiner	Art Unit					
	Leila Malek	2611					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tim ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. hely filed the mailing date of this communication. D (35 U.S.C. § 133).					
Status		•					
1) Responsive to communication(s) filed on 23 Se	eptember 2003						
2a) This action is FINAL . 2b) This	action is non-final.						
3) Since this application is in condition for allowar	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	i3 O.G. 213.					
Disposition of Claims							
4)⊠ Claim(s) <u>1-9</u> is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5)⊠ Claim(s) <u>1-9</u> is/are allowed.							
6) Claim(s) is/are rejected.	<u></u>						
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or	election requirement.						
Application Papers							
9) The specification is objected to by the Examine	•						
10) ☐ The drawing(s) filed on <u>23 September 2003</u> is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
_	priority under 35 U.S.C. & 119(a)	-(d) or (f)					
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)□ Some * c)□ None of:							
	1.⊠ Certified copies of the priority documents have been received.						
•							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
•							
Attachment(e)							
Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)							
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	ate					
3) Information Disclosure Statement(s) (PTO/SB/08)	atent Application						
Paper No(s)/Mail Date 6) Other:							

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DETAILED ACTION

Priority

Acknowledgment is made of applicant's claim for foreign priority under 35
 U.S.C. 119(a)-(d). The certified copy has been filed in parent Application No.
 10/667,658, filed on 09/23/2003.

Specification

2. Applicant is reminded of the proper language and format for an abstract of the disclosure.

The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns," "The disclosure defined by this invention," "The disclosure describes," etc.

Abstract of the invention exceeds 150 words in length. Appropriate action is required.

Allowable Subject Matter

3. Claims1-9 allowed. The following is an examiner's statement of reasons for allowance: The following is a statement of reasons for the indication of allowable subject matter:

A comprehensive search of prior art of record failed to teach, either alone or in combination, an apparatus comprising; a clock synthesizer for outputting a plurality of sampling clocks, a timing thereof being adjusted by receiving an external clock

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synchronized with the external data signal; an over-sampler for over-sampling a first equalized external data signal and a second equalized external data signal in synchronization with the sampling clocks; a multiplexer for multiplexing the outputs of the over-sampler in response to preceding outputs of the multiplexer, which serve as select signals for the multiplexer, to thereby attain multiplexer decision results; and a phase detector for deciding the timing of the sampling clocks by analyzing the multiplexer decision results.

Conclusion

- 4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. (US 2003/0195645) (2004/0001567) (5,844,436) (4,972,430) (6,396,329).
- 5. This application is in condition for allowance except for the following formal matters:

See above.

Prosecution on the merits is closed in accordance with the practice under *Ex* parte Quayle, 1935 C.D. 11, 453 O.G. 213.

A shortened statutory period for reply to this action is set to expire **TWO**MONTHS from the mailing date of this letter.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Leila Malek whose telephone number is 571-272-8731. The examiner can normally be reached on 9AM-5:30PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mohammad Ghayour can be reached on 571-272-3021. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

> Leila Malek Examiner Art Unit 2611

L.M

MOHAMMED GHAYOUR SUPERVISORY PATENT EXAMINER